

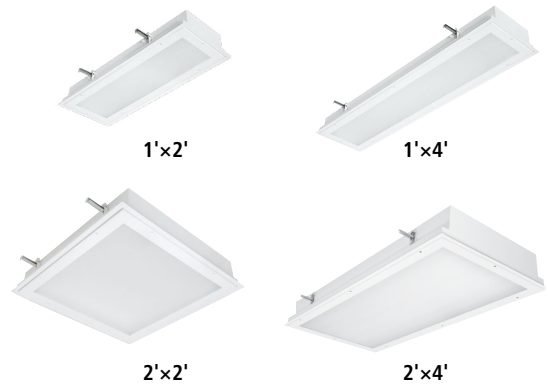
MEDMASTER™

Surgical Suite Luminaires

M4SEDI SERIES – WHITE LED USING KORE TECHNOLOGY™

PRODUCT FEATURES:

- » Diffused high-efficiency lens for reduced glare
- » Symmetric, symmetric/asymmetric and full asymmetric optic distributions with uniform lens appearance
- » Universal housing accommodates either flange or grid applications
- » Sealed housing, smooth exterior doorframe and lens for infection prevention and simplified cleaning protocols
- » Radiated and conducted emissions controlled as per MIL-STD-461G
- » For M4SEDI with Green LEDs, [click here](#)



SPECIFICATIONS

HOUSING: Standard 24-gauge cold rolled steel with dust-tight, sealed construction. Alternate material options available. Rigid housing flange with mitered and welded corners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours. Antimicrobial finish on all exposed painted surfaces of installed luminaire. Internal surfaces use a proprietary high reflectance coating (Reflectance: >92%). Flange finish matches housing, regardless of doorframe finish.

DOORFRAME: Standard 20-gauge cold rolled steel. One-piece inset style construction with welded corners. Steel and Aluminum selections are finished with gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Optional 20-gauge type 304 stainless steel (#4 finish-post fabrication). Antimicrobial finish standard on all exposed painted surfaces. Doorframe secured to housing with stainless steel aircraft cables and captive flush-mounted Phillips head stainless steel fasteners - (6) for 1x2, (8) for 1x4 and 2x2, (10) for 2x4. One-piece, closed-cell silicone gasket seals doorframe to housing.

OPTICS: Injection-molded, high refraction polycarbonate optics provided for each LED. Proprietary KORE Technology™ (Kenall Optical Radiance Engine) delivers improved visual performance and uniform diffuser luminance (<1.5:1 max/min ratio across full lens area). Impact-resistant diffused acrylic outer lens. Symmetric/asymmetric (ASYM) and full-asymmetric (FASYM) optics provide asymmetric throw while retaining uniform luminance.

ELECTRICAL: Serviceable mid-power LED array. Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI (R9 > 50) available. 120/277VAC or 347VAC, 50/60Hz electrical input with replaceable high power factor electronic, constant-current driver (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. 0.8mA maximum source current. EMC meets or exceeds FCC CFR Part 15 and MIL-STD-461G requirements.

SENSOR & CONTROLS: To see the full list of compatible controls, [click here](#).

INSTALLATION: Non-IC recessed ceiling mounting into grid and flange application types. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into grid or flange (drywall) ceiling applications. See below for install frames, optionally used for flange mount in hard ceilings (not required).

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to [www.kenall.com](#).

WARRANTY: Limited five (5) year LED warranty

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. ETL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Compliant with MIL-STD 461G for radiated and conducted emissions (including when ordered with LEL option). CCEA Approved.



ORDERING INFORMATION (Ex: M4SEDI-24-130L-35K9-DIM1-277-2F-4H-SYM-LEL)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options
M4SEDI				DIM1					
Size		Lamp Color		Housing Options					
12	1'x2' Nominal	30K8	3000K / 80CRI min.	4H 24-Ga CRS in Antimicrobial Gloss White (STD)					
14	1'x4' Nominal	30K9	3000K / 90CRI min.	2H 20-Ga CRS in Antimicrobial Gloss White					
22	2'x2' Nominal	35K8	3500K / 80CRI min.	5H 20-Ga Type 304 Stainless Steel					
24	2'x4' Nominal	35K9	3500K / 90CRI min.	PAH .050" Fabricated Aluminum in Antimicrobial Gloss White					
Lamp Power		Driver Type		Optics					
1'x2'		DIM1	0-10V Dimming to 1% with Dim-to-Dark	SYM Symmetric, Diffused DR Acrylic					
16L▲	16 Watt LED	Voltage		ASYM Asymmetric/Symmetric Optic with Diffused DR Acrylic					
34L	34 Watt LED	120	120VAC, 50/60Hz	FASYM Full Asymmetric Optic with Diffused DR Acrylic					
42L	42 Watt LED	277	277VAC, 50/60Hz	Options					
1'x4'		347	347VAC, 60Hz	LEL▲ 10W Emergency Battery Pack					
32L	32 Watt LED	Doorframe Options		20KV 20KV/KA Surge Protection per IEEE/ANSI C62.41.2 Cat. A					
62L	62 Watt LED	2F	20-Ga CRS in Antimicrobial Gloss White (STD)	FS Fuse & Holder					
78L	78 Watt LED	PAF	Fabricated Aluminum in Antimicrobial Gloss White	HJ Sealed Wireway					
2'x2'		5F	20-Ga Type 304 SS with 4B Brushed Finish	IF*† Install Frame					
45L	45 Watt LED	Doorframe Options		RM* Continuous Row Mounting					
70L	70 Watt LED	2F	20-Ga CRS in Antimicrobial Gloss White (STD)	2C Two-Circuit Wiring					
90L	90 Watt LED	PAF	Fabricated Aluminum in Antimicrobial Gloss White	* Only available when installing in drywall ceilings (flange mount)					
2'x4'		5F	20-Ga Type 304 SS with 4B Brushed Finish	† Add .375" to ceiling cut out dimensions					
80L	80 Watt LED	Doorframe Options		▲ n/a 347V					
130L	130 Watt LED	2F	20-Ga CRS in Antimicrobial Gloss White (STD)						
165L	165 Watt LED	PAF	Fabricated Aluminum in Antimicrobial Gloss White						



M4SEDI SERIES – TECHNICAL DATA

PERFORMANCE

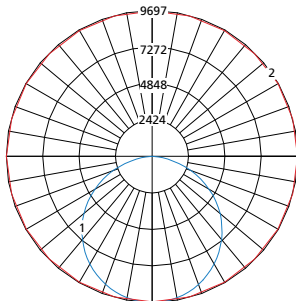
Model	Lamp Power	Initial Delivered Lumens, By Optic			Efficacy (lm/W)	Input Power (W)	Input Current @ 120V/277V (A)	TM-21 Reported L70 (hrs)
		SYM	ASYM	FASYM				
M4SEDI12	16L	2,557	2,216	2,194	111 - 129	20	0.267 / 0.116	> 72,000
	34L	5,102	4,422	4,378	111 - 129	39	0.408 / 0.156	
	42L	5,999	5,199	5,148	106 - 124	49	0.468 / 0.192	
M4SEDI14	32L	4,860	4,466	4,484	127 - 138	35	0.379 / 0.144	> 72,000
	62L	9,815	9,018	9,056	123 - 134	73	0.678 / 0.300	
	78L	11,635	10,690	10,735	116 - 126	92	0.867 / 0.390	
M4SEDI22	45L	7,784	7,077	7,059	132 - 146	53	0.511 / 0.213	> 72,000
	70L	11,868	10,789	10,762	128 - 141	84	0.762 / 0.340	
	90L	14,384	13,077	13,044	126 - 139	104	0.925 / 0.442	
M4SEDI24	80L	14,890	13,922	13,924	147 - 157	95	0.846 / 0.403	> 72,000
	130L	23,279	21,766	21,769	140 - 149	156	1.355 / 0.775	
	165L	27,857	26,047	26,050	134 - 143	195	1.725 / 0.979	

NOTE: All values reported at 4000K, 80CRI (40K8). Use Performance Scaling table to determine lumen output at desired lamp color. Information subject to change without notice. Visit www.kenall.com for .ies files and additional information.

Performance Scaling, by Lamp Color

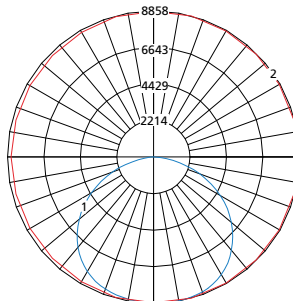
Model	Lamp Power
30K8	0.92
30K9	0.83
35K8	0.95
35K9	0.87
40K8	1.00
40K9	0.89
50K8	0.96
50K9	0.89

Model: M4SEDI-24-165L-40K8-DIM1-vv-ww-xxx-SYM-zzzz



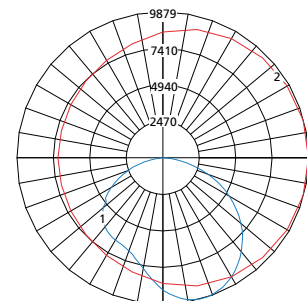
Max Candela = 9697 Located At Horizontal Angle = 0, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: M4SEDI-24-165L-40K8-DIM1-vv-ww-xxx-ASYM-zzzz



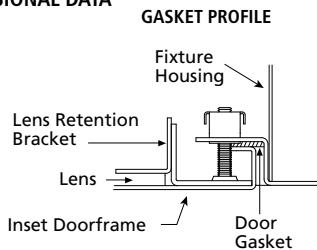
Max Candela = 8858 Located At Horizontal Angle = 75, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Model: M4SEDI-24-165L-40K8-DIM1-vv-ww-xxx-FASYM-zzzz

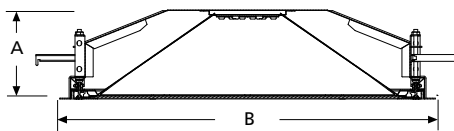


Max Candela = 9879 Located At Horizontal Angle = 0, Vertical Angle = 15
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

DIMENSIONAL DATA



CROSS SECTION



CEILING CUTOUT



DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
1x2	5.22	11.75 x 23.75	10.85	22.85
1x4	5.22	11.75 x 47.75	10.85	46.85
2x2	5.22	23.75 x 23.75	22.85	22.85
2x4	5.22	23.75 x 47.75	22.85	46.85

* Add .375" to ceiling cut out dimensions when IF Option is specified

